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 TI Aliphatic polyamineamide resins
 IN Witek, Edward
 PA Politechnika Lodzka, Pol.
 SO Pol., 4 pp.
 CODEN: POXXA7
 DT Patent
 LA Polish
 IC C08G069-28
 CC 37-3 (Plastics Manufacture and Processing)
 FAN.CNT 1

PL 130,185

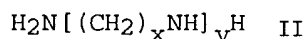
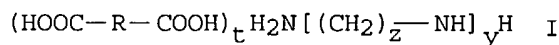
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| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|----------------|------|----------|-----------------|----------|
| PI | PL 130185 | B2 | 19840731 | PL 1982-239110 | 19821117 |
| PRAI | PL 1982-239110 | | 19821117 | | |

CLASS

| PATENT NO. | CLASS | PATENT FAMILY CLASSIFICATION CODES |
|------------|-------|------------------------------------|
| PL 130185 | IC | C08G069-28 |

GI



AB Aliph. polyamineamide resins are produced by condensation of $\text{H}_2\text{N}[(\text{CH}_2)_z\text{NH}]_y \text{H} \cdot x\text{R}(\text{CO}_2\text{H})_2$ (R = C2-8 alkylene, x = 2-4; y .gtoreq. 2; z .gtoreq. 2) with $\text{H}_2\text{N}[(\text{CH}_2)_w\text{NH}]_v \text{H}$ (w .gtoreq. 2; v .gtoreq. 0) at

1:0.2-1.4

molar ratio at .ltoreq.10.degree. above the salt m.p. and pressure not exceeding atm. pressure. The products are suitable as adhesives and hardeners for epoxy resins, and components of thermoplastic resins. Thus, diethylenetriamine succinate (m.p. 117-118.degree., primary amine/carboxylic group ratio 1:2) was melted with

stirring, and 10.3 g diethylenetriamine was added to obtain a primary amine/carboxylic group ratio of 1:1. Condensation was done with stirring during 6 h in air at 110.degree.. The resulting polyamineamide resin was sol. in water and alc., and had an amine no. of 106 mg KOH/g.

ST polyamide polyamine prepn; crosslinker polyamineamide **epoxy resin**; adhesive polyamineamide; succinic acid diethylenetriamine copolymer

IT Polymerization

(of polyamine dicarboxylic acid salts with polyamines)

IT Adhesives

(polyamine-polyamides for)

IT Crosslinking agents

(polyamine-polyamides, for **epoxy resins**)

IT **Epoxy resins**, uses and miscellaneous

RL: USES (Uses)

(polyaminepolyamides, manuf. of)

IT Polyamines

RL: PREP (Preparation)

(polyamide-, prepn. of, as adhesives and **epoxy resin**
crosslinkers)

IT Polyamides, preparation

RL: PREP (Preparation)

(polyamine-, prepn. of, as adhesives and **epoxy resin**
crosslinkers)

IT 25085-20-5P, Adipic acid-diethylenetriamine copolymer

28349-07-7P, Diethylenetriamine-succinic acid copolymer 110633-05-1P

110633-06-2P 110633-07-3P 110633-08-4P

RL: PREP (Preparation)

(prepn. of, as adhesives and **epoxy resin**
crosslinkers)